

**Multifunctional switching device for a motor vehicle**

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Applicant(s):: MANNESMANN VDO AG (DE)  
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IPC Classification: H01H3/00 ; H01H9/00 ; H01H25/00 ; B60R16/02  
EC Classification: B60R16/02B6  
Equivalents: ☐ EP0796766, ☐ JP10020950

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**Abstract**

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A multifunctional control device for an electronic apparatus having a control element that has a shaft that passes through a front panel and a slide element. The control element is biased to a centered position with respect to the opening in which it passes through the front panel. A plurality of electrical contact elements are arranged behind the front panel and are spaced from the slide element when the control element is in the centered position. The control element is adapted to permit transverse movement of the control element with respect to the front panel. The transverse movement of the control element is transmitted to the slide element to move the slide element within a plane parallel to the front panel and to engage at least one electrical contact element.

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DERWENT-ACC-NO: 1997-459733  
DERWENT-WEEK: 199918  
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TITLE: Multifunctional control element for use in motor vehicles - is compressible and slidable, acts with contact elements

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PRIORITY-DATA: 1996DE-1010344 (March 18, 1996)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES
MAIN-IPC			
EP 796766 A2	September 24, 1997	G	009
B60R 016/02			
US 5883346 A	March 16, 1999	N/A	000
H01H 003/00			
DE 19610344 A1	September 25, 1997	N/A	008
B60R 016/02			
JP 10020950 A	January 23, 1998	N/A	006
G05G 009/047			

DESIGNATED-STATES: DE FR GB IT

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APPLICATION-DATA:

PUB-NO	APPL-DESCRIPTOR	APPL-NO	
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EP 796766A2	N/A	1997EP-0200684	March 7, 1997
US 5883346A	N/A	1997US-0819230	March 17, 1997
DE 19610344A1	N/A	1996DE-1010344	March 18, 1996
JP 10020950A	N/A	1997JP-0063152	March 17, 1997

INT-CL (IPC): B60K037/06; B60R016/02 ; G05G009/047 ; H01H003/00 ; H01H009/00 ; H01H025/00 ; H01H025/06

ABSTRACTED-PUB-NO: EP 796766A

BASIC-ABSTRACT: The turnable control element (10) is for selection of menus and/or functions, and is operated to activate an enter function. The element is cross-movably positioned within at least one plane, containing the element

axis. The control element acts with contact elements (30). The contact positions of the control element formed by cross-movement, are associated with menus and/or functions.

The control element is also compressible, and the enter function may be activated by movement or compression. The number of planes, and the number of contact elements located in these, correspond to the number of menus/functions. The control element may be the volume control knob of a radio.

USE/ADVANTAGE - Radio volume control knob. Provides wider range of functions.

ABSTRACTED-PUB-NO: US 5883346A

EQUIVALENT-ABSTRACTS: The turnable control element (10) is for selection of menus and/or functions, and is operated to activate an enter function. The element is cross-movably positioned within at least one plane, containing the element axis. The control element acts with contact elements (30). The contact positions of the control element formed by cross-movement, are associated with menus and/or functions.

The control element is also compressible, and the enter function may be activated by movement or compression. The number of planes, and the number of contact elements located in these, correspond to the number of menus/functions. The control element may be the volume control knob of a radio.

USE/ADVANTAGE - Radio volume control knob. Provides wider range of functions.

CHOSEN-DRAWING: Dwg.2/10

TITLE-TERMS:

MULTIFUNCTION CONTROL ELEMENT MOTOR VEHICLE COMPRESS SLIDE ACT CONTACT ELEMENT

DERWENT-CLASS: Q13 Q17

SECONDARY-ACC-NO:

Non-CPI Secondary Accession Numbers: N1997-382786